

ABSTRACT OF THE DISCLOSURE

A system for diagnosing operation of a delta pressure sensor used with an internal combustion engine comprises an intake manifold and an exhaust manifold each
5 operatively coupled to the engine, an EGR conduit fluidly coupled between the intake and exhaust manifolds, and a flow restriction mechanism disposed in-line with the EGR conduit, wherein the delta pressure sensor produces a delta pressure signal indicative of a pressure differential across the flow restriction mechanism. A control computer
10 compares the delta pressure signal to a modeled delta pressure value modeled as a function of at least engine speed and one of engine load and engine output torque percentage, and diagnoses a fault state of the delta pressure sensor based on the comparison.